

Applicants: Graham P. Allaway et al.
Serial No.: 09/904,356
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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1-25. (Canceled)
26. (Currently Amended) A method of specifically inhibiting fusion of an HIV-1 envelope glycoprotein⁺ cell with a CD4⁺ cell that fuses with such HIV-1 envelope glycoprotein⁺ cell, which comprises contacting the CD4⁺ cell with an anti-PM1 monoclonal antibody that (1) inhibits HIV-1 envelope glycoprotein mediated membrane fusion of HeLa-env_{JR-FL} to a PM1 cell, but (2) does not inhibit HIV-1 envelope glycoprotein mediated membrane fusion of HeLa-env_{LAI} to a HeLa-CD4⁺ cell, so as to thereby inhibit fusion of the HIV-1 envelope glycoprotein⁺ cell with the CD4⁺ cell.
27. (Canceled) ~~The method of claim 26, wherein the antibody is a monoclonal antibody.~~
28. (Currently Amended) The method of claim 26 ~~27~~, wherein the anti-PM1 monoclonal antibody is a chimeric antibody.
29. (Currently Amended) The method of claim 26 ~~27~~, wherein the anti-PM1 monoclonal antibody is a synthetic antibody.
30. (Currently Amended) The method of claim 26, wherein the anti-PM1 monoclonal antibody is an antigen binding fragment of an antibody.
31. (Currently Amended) A method of inhibiting infection of a CD4⁺ cell by HIV-1, which comprises contacting the CD4⁺ cell with an anti-PM1 monoclonal antibody that (1) inhibits HIV-1 envelope glycoprotein mediated membrane fusion of HeLa-env_{JR-FL} to a PM1 cell, but (2) does not inhibit HIV-1 envelope glycoprotein mediated membrane fusion of HeLa-env_{LAI} to a HeLa-CD4⁺ cell, so as to thereby inhibit infection of the CD4⁺ cell by HIV-1.

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32. (Canceled) ~~The method of claim 31, wherein the antibody is a monoclonal antibody.~~
33. (Currently Amended) The method of claim 31 ~~32~~, wherein the anti-PM1 monoclonal antibody is a chimeric antibody.
34. (Currently Amended) The method of claim 31 ~~32~~, wherein the anti-PM1 monoclonal antibody is a synthetic antibody.
35. (Currently Amended) The method of claim 31, wherein the anti-PM1 monoclonal antibody is an antigen binding fragment of an antibody.